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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

(PC1 Article 50 and Rate 10)				
Applicant's or agent's file reference FOR FURTHER ACTION See Form PCT/IPEA/416				
P06179PC00	International filing date (day/	month/year)	Priority date (day/month/year)	
International approximent 1			15-10-2002	
PCT/SE 2003/001122 27-06-2003 13-10-2002 International Patent Classification (IPC) or national classification and IPC				
HO4L12/14				
H04D12/14				
Applicant		717		
Telefonaktiebolaget L	M Ericsson (pub	I) et al		
This report is the international pre Authority under Article 35 and tr	eliminary examination report, or ransmitted to the applicant accordance	established by thording to Article	is International Preliminary Examining 36.	
2. This REPORT consists of a total	of 4 sheets, in	cluding this cove	er sheet.	
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		and a total of	4 sheets, as follows:	
	at and to the International Bure	t h h or	we been amended and are the basis of this report	
a. (sent to the applicant and to the international and are the basis of this report sheets of the description, claims and/or drawings which have been amended and are the basis of this report sheets of the description, claims and/or drawings which have been amended and are the basis of this report sheets of the description, claims and/or drawings which have been amended and are the basis of this report sheets of the description, claims and/or drawings which have been amended and are the basis of this report sheets of the description, claims and/or drawings which have been amended and are the basis of this report sheets of the description, claims and/or drawings which have been amended and are the basis of this report sheets of the description, claims and/or drawings which have been amended and are the basis of this report sheets of the description and sheet and sheet and sheet and sheet and sheets of the description and sheet and she				
		which this Autho	ority considers contain an amendment that goes	
sheets which supersede earlier sheets, but which this Authority considers contain at the beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.				
(supplied the International Burgay only) a total of (indicate type and number of electronic carrier(s))				
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readable form only,	, as indicated in the Supplement	ntal Box Relating	g to Sequence Listing (see Section 802 of the	
Administrative Inst				
4. This report contains indications	relating to the following items s of the report	S.		
Box No. II Prior	ity		inventive step and industrial applicability	
1 1		regard to noveit	y, inventive step and industrial applicability	
Box No. IV Lack of unity of invention				
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
Box No. VI Certain documents cited				
Box No. VII Certain defects in the international application				
Box No. VIII Certain observations on the international application				
			. 01:	
Date of submission of the demand		Date of completion of this report		
1				
10-03-2004		12-01-2005		
Name and mailing address of the IPE	A/SE	Authorized offi	cer	
Patent- och registreringsverket			- Cn - 1-m	
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Facsimile No. +46 8 667 72 88		Telephone No. +46 8 /62 25 00		

Form PCT/IPEA/409 (cover sheet) (January 2004)



International	application	No.

PCT/SE 2003/001122

Box	No. I	Basis of	the report		
1.			anguage, this report is based on the international applicander this item.	ation in the language in which it was filed, unless	
	This report is based on a translation from the original language into the following language, which is the language of a translation furnished for the purposes of:				
		inter	national search (under Rules 12.3 and 23.1(b))		
		publi	cation of the international application (under Rule 12.4)		
		inter	national preliminary examination (under Rules 55.2 and/or	55.3)	
2.	furnisl	ed to the rece	elements of the international application, this report is viving Office in response to an invitation under Article 14 to this report):	s based on (replacement sheets which have been are referred to in this report as "originally filed"	
	Ш	the internation	onal application as originally filed/furnished		
	\boxtimes	the description	on:		
		pages 1-	-23	as originally filed/furnished	
				uthority on	
	K	pages*	received by this Au	uthority on	
	\boxtimes	the claims:			
		pages		as originally filed/furnished	
		pages*		led (together with any statement) under Article 19	
		pages* 24		athority on 2004-11-19	
				uthority on	
	\triangle	the drawings			
		pages 1- pages*		as originally filed/furnished	
		pages*	received by this Au	athority onathority on	
			sting and/or any related table(s) – see Supplemental Box R		
		a sequence ii	sting and of any related table(s) – see supplemental box R	telaung to Sequence Listing.	
3.		The amendm	ents have resulted in the cancellation of:		
		the	description, pages		
		the	claims, Nos.		
		the	drawings, sheets/figs		
		the	sequence listing (specify):		
		1	y table(s) related to the sequence listing (specify):		
4.		This report I made, since 70.2(c)).	has been established as if (some of) the amendments and they have been considered to go beyond the disclosure as	nexed to this report and listed below had not been a filed, as indicated in the Supplemental Box (Rule	
		the	description, pages		
			description, pages		
			claims, Nos.		
,		ine	drawings, sheets/figs		
			sequence listing (specify):		
			table(s) related to the sequence listing (specify):	· · · · · · · · · · · · · · · · · · ·	
*	If item	4 applies, son	ne or all of those sheets may be marked "superseded."		

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/SE 2003/001122

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

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4	Statement ·
	Statement .

Novelty (N)	Claims Claims	1-24	YES NO
Inventive step (IS)	Claims Claims	1-24	YES NO
Industrial applicability (IA)	Claims Claims	1-24	YES NO

2. Citations and explanations (Rule 70.7)

This report concerns the new claims received on 2004-11-19.

The application is concerned with a problem that multi token bucket solutions, in charging systems, create a large amount of signalling traffic.

Documents cited in the International Search Report:

D1. WO 0201847 A1

D2. WO 0117222 A1

D1, which is considered to represent the most relevant state of the art, discloses a method and apparatus for charging of communication services (see abstract). The system in D1 contains a prepaid service account with a charging value that can be used to pay for outgoing calls and services. The system allows parallel, i.e. timely overlapping, prepaid service for a single user to be charged on the same prepaid account see page 8, line 17-30).

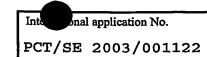
D2 is a background art document and is not considered to be of particular relevance.

Claims 1-7 and 14-24:

The invention according to these claims differs from D1 in that the token bucket plurality of stores a service reservations. Ιt is not considered obvious for a person skilled in the art to include such reservations in the system in D1. Thus, the invention according to claims 1-7 and claims 14-24 is novel and includes an inventive step. The invention according these to claims is also considered industrially applicable.

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY



Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: Box V

Claims 8-13:

The invention according to these claims differs from D1 in that the charging policy decision point is arranged to calculate a charging policy for a plurality of allowed services for a user. It is not considered obvious for a person skilled in the art to include this feature in the system in D1. Thus, the invention according to claims 8-13 is novel and includes an inventive step. The invention according to these claims is also considered to be industrially applicable.